

Acuvim IIBN Series BACnet Power Meter



BTL Certified

0.2 Class

BACnet

Panel Mount or Din-Rail

5 Year Warranty



ISO9001 Certified

Acuvim IIBN BACnet multifunction power and energy meter is the ideal choice for the monitoring of electrical system parameters in building and facilities.

Natively support BACnet-IP protocol (BTL-listed) allows the meter seamlessly integrates with any Building Automation System.

Secure and mobile-friendly HTTPS web interface allows users to view and configure meter from any device.



FEATURES

BACnet-IP

Integrate with any building automation and control systems using BACnet-IP with peace of mind. BLT certified.

Revenue Grade Certified

ANSI C12.20 Class 0.2 and IEC 62053-22 0.2s class revenue grade accuracy allows revenue submetering applications such as billing and cost allocation.

Suitable for any Electrical Systems Configuration

- Measures essential electrical system parameters in single element, two element and three element systems.
- Acuvim IIBN supports all electrical system configurations from single phase to three phase, all in one meter

No PT/VT Needed

Directly measures up to 400Vl-n 690Vl-l without potential transformers.

Universal Current transformer support

Support all types of CT from solid, split core and flexible Rogowski Coil, ideal for new and retrofit metering projects.

Real-time Monitoring

- All parameters can be monitored in real-time from built-in web interface.
- Over 100 parameters can be accessed in real-time via BACnetIP protocol.

Secure Access to Data

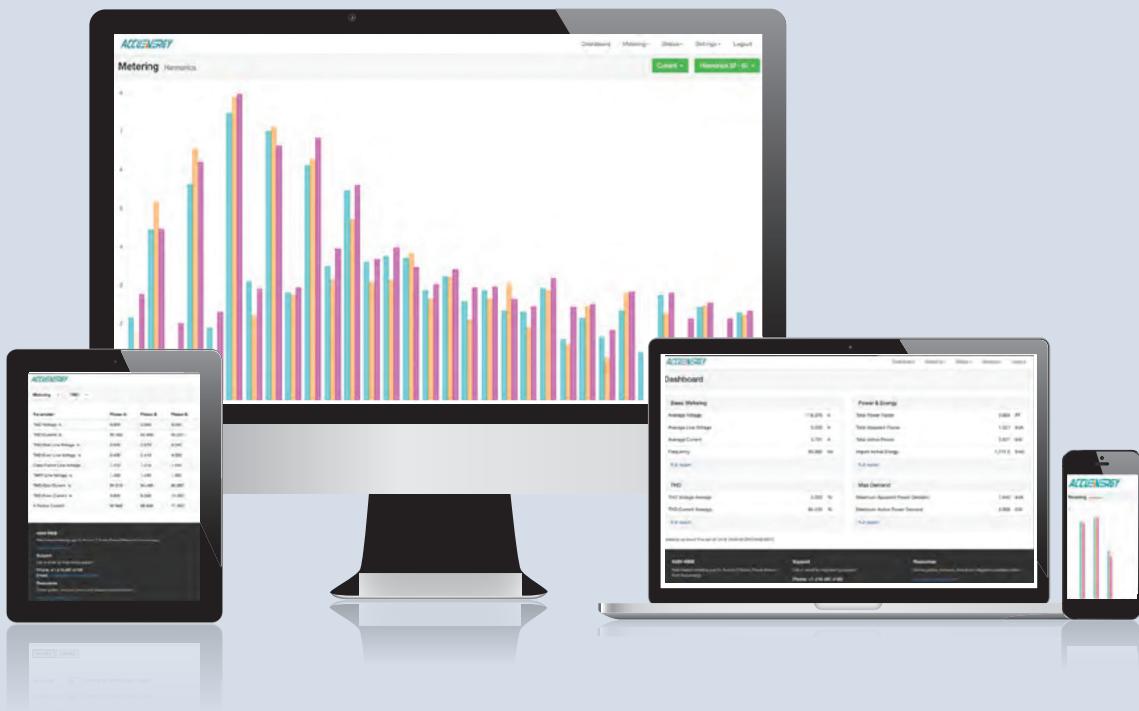
HTTPs web server are used on entire web interface. All data communication are encrypted and secured. The encryption ensures critical data is secured in communication between meter and user's access.

Mobile Friendly

Mobile-Friendly web interface allows user to monitor and configure meter on any device from laptop to mobile phone.

MULTI-PLATFORM ACCESS

Built-in web server provides computer, tablet and smartphone access.



PARAMETER LIST

● Função; ○ Opção; NA em branco

PARÂMETROS	ITEM	Acuvim IIBN
Frequency	Hertz	●
Phase A Voltage	Volts	●
Phase B Voltage	Volts	●
Phase C Voltage	Volts	●
Average Voltage	Volts	●
Line Voltage AB	Volts	●
Line Voltage BC	Volts	●
Line Voltage CA	Volts	●
Average Line Voltage	Volts	●
Phase A Current	Ampères	●
Phase B Current	Ampères	●
Phase C Current	Ampères	●
Average Current	Ampères	●
Neutral Current	Ampères	●
Phase A Active Power	Kilowatts	●
Phase B Active Power	Kilowatts	●
Phase C Active Power	Kilowatts	●
Total Active Power	Kilowatts	●
Phase A Reactive Power	Kilovolt_ampères_reactive	●
Phase B Reactive Power	Kilovolt_ampères_reactive	●
Phase C Reactive Power	Kilovolt_ampères_reactive	●
Total Reactive Power	Kilovolt_ampères_reactive	●
Phase A Apparent Power	Kilovolt_ampères	●
Phase B Apparent Power	Kilovolt_ampères	●
Phase C Apparent Power	Kilovolt_ampères	●
Total Apparent Power	Kilovolt_ampères	●
Phase A Power Factor	Power_factor	●
Phase B Power Factor	Power_factor	●
Phase C Power Factor	Power_factor	●
Total Power Factor	Power_factor	●
Voltage Unbalance Factor	Percent	●
Current Unbalance Factor	Percent	●
Load Type	N/A	●
Active Power Demand	Kilowatts	●
Reactive Power Demand	Kilovolt_ampères_reactive	●
Apparent Power Demand	Kilovolt_ampères	●
Phase A Current Demand	Ampères	●
Phase B Current Demand	Ampères	●
Phase C Current Demand	Ampères	●
Import Active Energy	Kilowatt_hours	●
Export Active Energy	Kilowatt_hours	●
Import Reactive Energy	Kilowatt_hours	●
Export Reactive Energy	Kilowatt_hours	●
Energy Total	Kilowatt_hours	●
Energy Net	Kilowatt_hours	●
Reactive Energy Total	Kilowatt_hours	●
Reactive Energy Net	Kilowatt_hours	●
Apparent Energy	Kilowatt_hours	●

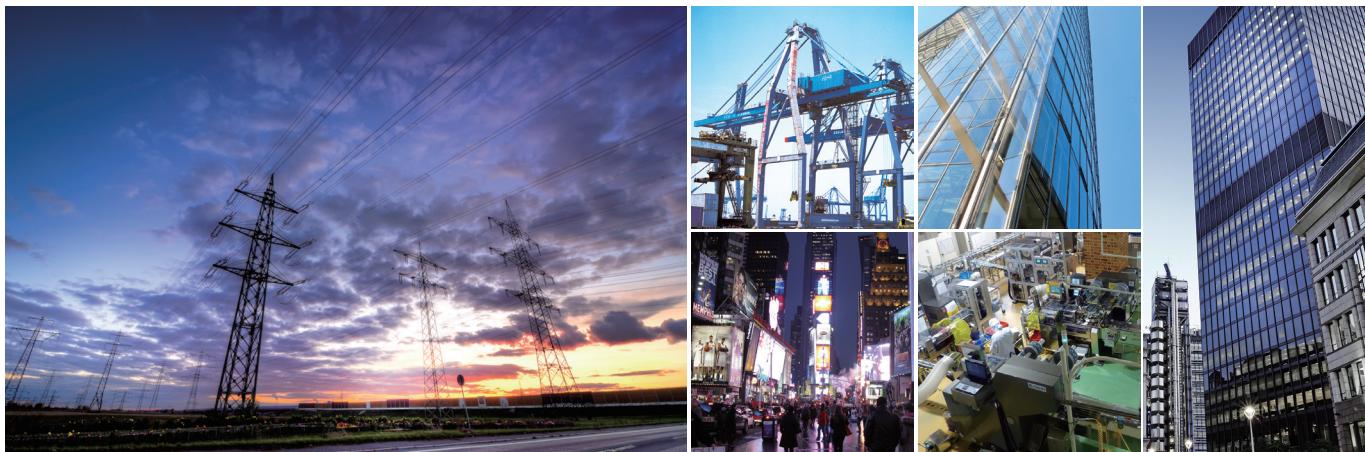
PARÂMETROS	ITEM	Acuvim IIBN
Phase A Import Active Energy	Kilowatt_hours	●
Phase A Export Active Energy	Kilowatt_hours	●
Phase B Import Active Energy	Kilowatt_hours	●
Phase B Export Active Energy	Kilowatt_hours	●
Phase C Import Active Energy	Kilowatt_hours	●
Phase C Export Active Energy	Kilowatt_hours	●
Phase A Import Reactive Energy	Kilowatt_hours	●
Phase A Export Reactive Energy	Kilowatt_hours	●
Phase B Import Reactive Energy	Kilowatt_hours	●
Phase B Export Reactive Energy	Kilowatt_hours	●
Phase C Import Reactive Energy	Kilowatt_hours	●
Phase C Export Reactive Energy	Kilowatt_hours	●
Phase A Apparent Energy	Kilowatt_hours	●
Phase B Apparent Energy	Kilowatt_hours	●
Phase C Apparent Energy	Kilowatt_hours	●
Phase A Voltage THD	Percent	●
Phase B Voltage THD	Percent	●
Phase C Voltage THD	Percent	●
Average Voltage THD	Percent	●
Phase A Current THD	Percent	●
Phase B Current THD	Percent	●
Phase C Current THD	Percent	●
Average Current THD	Percent	●

Top quality components are meticulously engineered into a line of products offering best-in-class capability that exceeds the toughest standards and ratings.

APPLICATIONS

Submeters for high performance monitoring and analysis, system integration & speciality applications.

- Building Automation And Control Systems
- Commercial Buildings
- Industrial facility metering
- Data Center Monitoring
- Tenant Submetering

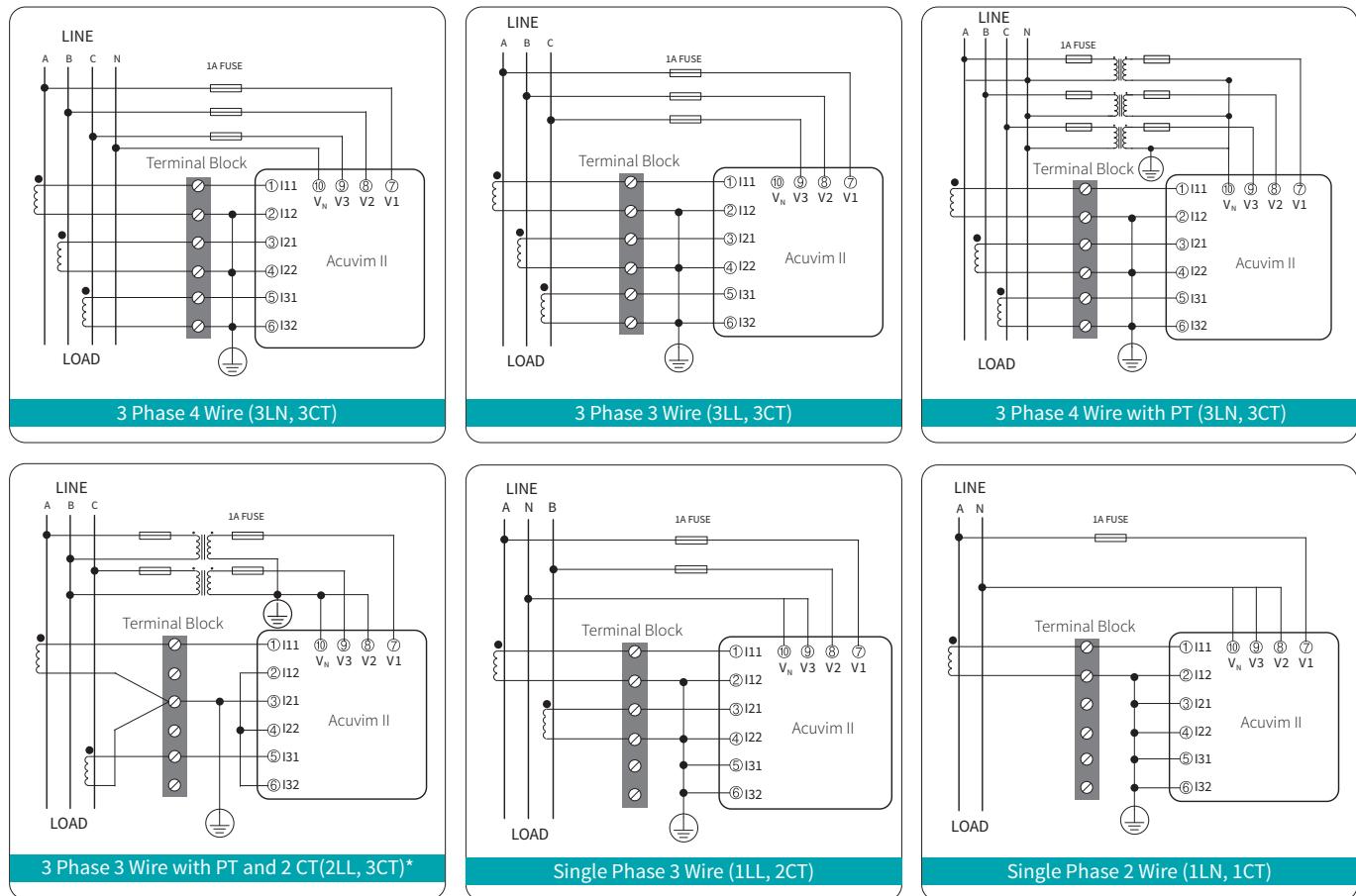


SPECIFICATIONS

METERING			
Parameters	Accuracy	Resolution	Range
Voltage	0.2%	0.1V	10V~1000kV
Current	0.2%	0.1mA	5mA~50000A
Power	0.2%	1W	-9999MW~9999MW
Reactive Power	0.2%	1var	-9999Mvar~9999Mvar
Apparent Power	0.2%	1VA	0~9999MVA
Power Demand	0.2%	1W	-9999MW~9999MW
Reactive Power Demand	0.2%	1var	-9999Mvar~9999Mvar
Apparent Power Demand	0.2%	1VA	0~9999MVA
Power Factor	0.2%	0.001	-1.000~1.000
Frequency	0.02%	0.01Hz	45.00~65.00Hz (50 or 60Hz type) 300.00Hz~500.00Hz (400Hz type)
Energy	Primary Secondary	0.2% 0.2%	0~9999999.9kWh 0~999999.999kWh
Reactive Energy	Primary Secondary	0.2% 0.2%	0~9999999.9kvarh 0~999999.999kvarh
Apparent Energy	Primary Secondary	0.2% 0.2%	0~9999999.9kVAh 0~999999.999kVAh

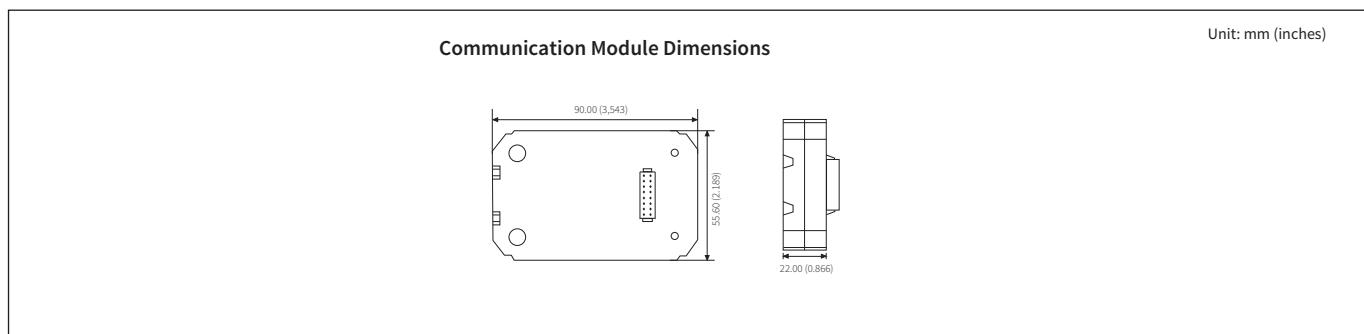
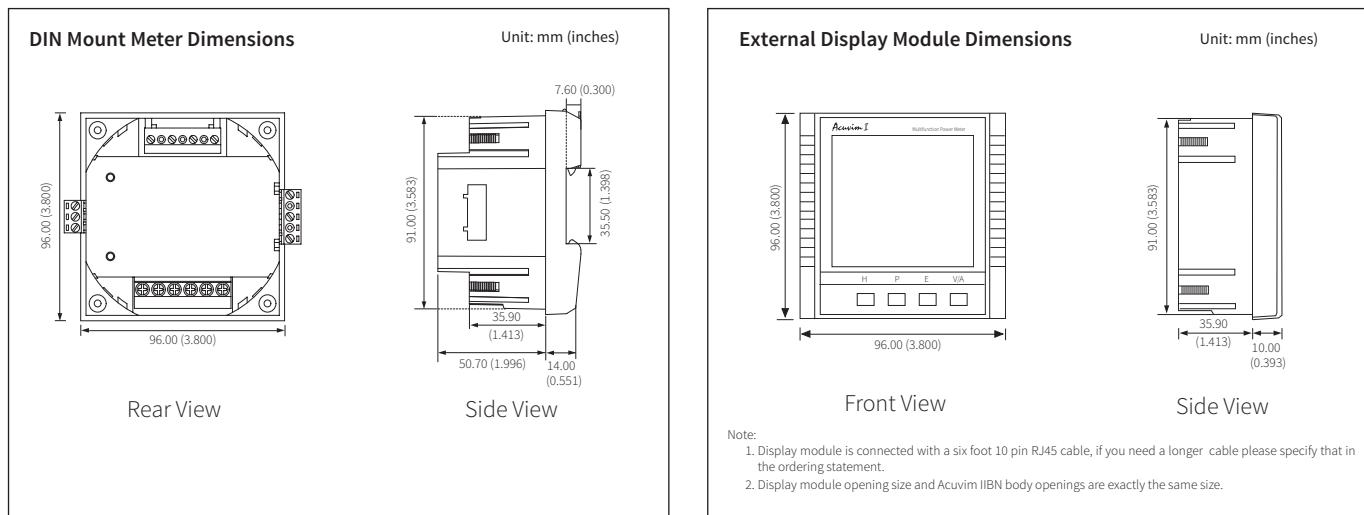
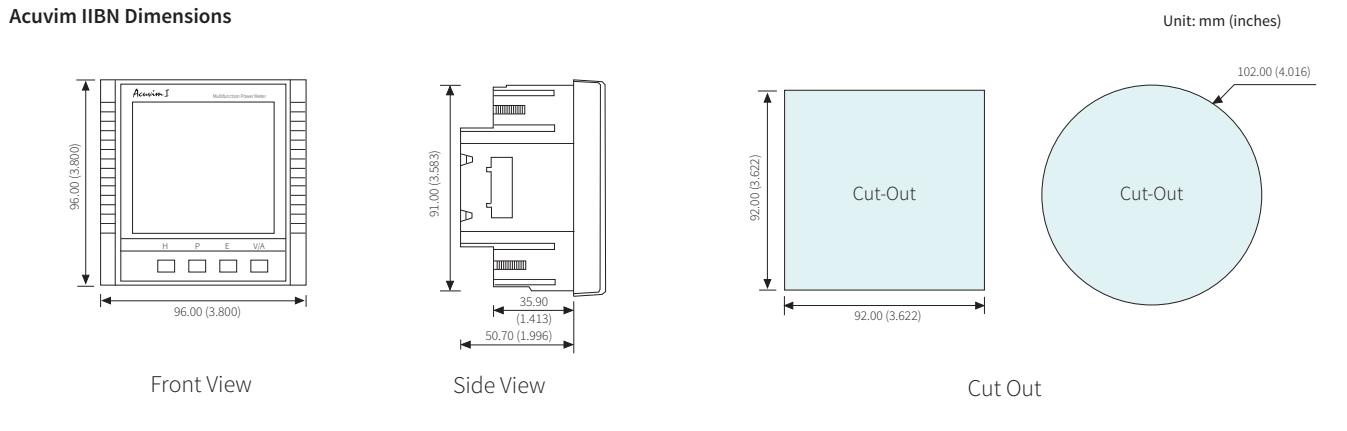
INPUT		CONTROL POWER	
Current Inputs (Each Channel)			
Nominal Current	(1)5A, (2)1A, (3)1A(333mV), (4)1A(100mV Rope-CT), (5)1A(80mA/100mA/200mA)	Universal	AC ou DC
Metering Range	(1)0~10A, (2)0~2A, (3)0~1.2A,(4)0~1.2A, (5)0~1.2A	AC/DC Control Power	100~415Vac, 50/60Hz; 100~300Vdc
Pickup Current	(1)5mA, (2)1mA, (3)5mA, (4)5mA, (5)5mA,	Operating Range	5W
Withstand	20Arms Continuous, 0.1% of Nominal 100Arms for 1 second, Non-Recurring	Burden	50/60Hz
Burden	0.05VA (Typical) @ 5Arms	Frequency	3250Vac, 50/60Hz for 1 minute
Accuracy	0.2% Full Scale	Withstand	
Voltage Inputs (Each Channel)		Installation Category III (Distribution)	
Nominal Full Scale	400Vac L-N, 690Vac L-L (+20%)		
Withstand	1500Vac Continuous		
Input Impedance	2500Vac, 50/60Hz for 1 Minute		
Metering Frequency	2Mohm per Phase		
Pickup Voltage	45Hz~65Hz, 300Hz ~ 500Hz		
Accuracy	10Vac		
Energy Accuracy		OPERATING ENVIRONMENT	
Active	Class 0.2s (According to IEC 62053-22)	Operation Temperature	- 25°C to 70°C
	Class 0.2s (According to ANSI C12.20)	Storage Temperature	- 40°C to 85°C
Reactive	Class 2 (According to IEC 62053-23)	Relative Humidity	5% to 95% Non-Condensing
Harmonic Resolution			
	63 rd Harmonic (50Hz or 60Hz type)		
	15 th Harmonic (400Hz type)		
STANDARD COMPLIANCE			
Measurement Standard	IEC 62053-22; ANSI C12.20		
Environmental Standard	IEC 60068-2		
Safety Standard	IEC 61010-1, UL 61010-1, IEC 61557-12		
EMC Standard	IEC 61000-4/-2-3-4-5-6-8-11, CISPR 22, IEC 61000-3-2, IEC 61000-6-2/4		
Outlines Standard	DIN 43700, ANSI C39.1		

TYPICAL WIRING



*Note: 2CT configuration is optional only in 3 Phase 3 Wire system.

DIMENSIONS



ORDERING INFORMATION

	Model	Mounting Option	Current Input	Power Supply
Ordering Number	-	-	-	-
Ordering Example	Acuvim IIE	D	5A	P1
Acuvim IIBN-xx-xx-xx	D: Integrated with LCD Display (Panel Mount Meter/Transducer)	5A: 5A Input	P1: 100 ~ 415Vac, 50 / 60Hz 100 ~ 300Vdc	
	M: DIN-Rail Mount Transducer without Display (Optional Remote Display Available)	1A: 1A Input	P2: 20~60Vdc	
		80mA/100mA/200mA Input		
		RCT: Rogowski Coil Input (Coil to be Ordered Separately from Below)		
		333: 333mV Input		

- Note:**
1. Accuenergy suggests using USB-RS485 converter for configuration, and 3 CTs per three phase circuits.
 2. All fields must be completed to create a part number.
 3. Add “-S” after power supply for anti-tampering seal option.
 4. Contact Accuenergy for 400Hz frequency option; 400Hz type, it don't support Acuvim IIW.

Remote Display Option:

REM- — DS2: Compatible with Acuvim II Series "M" (DIN Mount)
Models Only

Rogowski Coil Ordering Information:

	Size	Current Range
Ordering Number	-	-
Ordering Example	RCT16	-1000
RCT16 : 15.75" Coil, 4" Diameter	1000: Metering Range 5A to 1200A	
RCT24 : 23.62" Coil, 7" Diameter	2500: Metering Range 12.5A to 3000A	
RCT36: 35.43" Coil, 10.67" Diameter	5000: Metering Range 25A to 6000A	
RCT47: 47.24" Coil, 14.5" Diameter	10000: Metering Range 50A to 12000A	
	50000: Metering Range 250A to 50000A	

- Note:**
1. Make sure maximum current rating in system being metered is within the current metering range for Rogowski coil.
 2. Please contact Accuenergy if other lengths of coil or current ranges are needed.

Additional Accessories

AcuPanel ordering information:

AcuPanel 9014 (NEMA4 Indoor Panel)

AcuPanel 9104X (NEMA4X Waterproof)

Split Core CT Ordering Information:

	Model	Rated Input	Output
Ordering Number			
Ordering Example	AcuCT-2031	- 600	- 5
AcuCT-0812	- 250	-	5
	200: 200A		5: 5A Input
	250: 250A		
	300: 300A		
	400: 400A		
AcuCT-2031	- 400	-	5
	400: 400A		5: 5A Input
	600: 600A		
	800: 800A		
	1000: 1000A		
AcuCT-3147	- 1000	-	5
	1000: 1000A		5: 5A Input
	1200: 1200A		
	1600: 1600A		
AcuCT-3163	- 2000	-	5
	2000: 2000A		5: 5A Input
	2500: 2500A		
	3000: 3000A		
	- 4000: 4000A	-	
	5000: 5000A		

Note: Please contact Accuenergy if CTs in other sizes and ratios are needed.



Make Energy Usage Smarter



Accuenergy (Canada) Inc

2 Lansing Square, Suite 700
Toronto, ON M2J 4P8, Canada
Telephone: 1.877.721.8908



Accuenergy Pacific Automation Company Ltd.

400 Continental Blvd., Suite 600
El Segundo, CA 90245, USA
Telephone: 1.877.721.8908



Beijing Accuenergy Technology Co, Ltd.

NO. 12 Fengrun East Road, Yongfeng Industrial Park
Haidian District, 100094 Beijing China
Telephone: +86 10-5639 0066, 5639 0000



Accuenergy South Africa (Pty) Ltd.

Castle Walk Corporate Park, Block B, Cnr. Nossob & Swakop Street,
Erasmuskloof, Pretoria, 0181, South Africa
Telephone: +27 (0) 87 802 6136



North America Toll Free
1-877-721-8908



www.accuenergy.com



marketing@accuenergy.com

